Info-Hams Digest   Fri, 15 Jul 94   Volume 94 : Issue 798

Today's Topics:
                    2M opening to Hawaii de CA.
                     >> Simplex repeaters <<
                Guide to the Personal Radio Newsgroups
        Index to the rec.radio.amateur.* Supplemental Archives
                        orbs$196.2l.amsat
                 Performance of Toshiba TA7758P chip
             Re: Please read: Ham Radio Bootcamp (Long)
                        Selectone Encrypt

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 14 Jul 1994 14:07:02 -0700
From: agate!howland.reston.ans.net!gatech!ncar!noao!asuvax!chnews!
ornews.intel.com!ornews.intel.com!not-for-mail@ames.arpa
Subject: 2M opening to Hawaii de CA.
To: info-hams@ucsd.edu

In article <2vu2ii$if7@cat.cis.Brown.EDU> md@pstc3.pstc.brown.edu (Michael P.
Deignan) writes:
>In article <1994Jul11.224615.1@vax.sonoma.edu>,
>   harrisok@vax.sonoma.edu writes:

>> Oh am I jazzed! I just worked Hilo, Hawaii on 2 meters via our club repeater
>> here in Sonoma County, CA. The first time I worked Hawaii and it was VHF!

>Upgrade to General and you can work people even farther away than that.

>MD

Why not just call them on the telephone instead? Saves a lot of money on
radio gear.

Seriously, is an FM 2 meter contact of that distance unusual? I thought
SSB was pretty much mandatory. Just had a QSO with a guy on 222Mhz today
who claimed to have made the first 2 meter contact from the NorthWest US
to Hawaii. How many times has that been done?

--
zardoz@ornews.intel.com WA7LDV   from Oregon - The BEAVER state
I speak only for myself.   A Honeymoon salad = lettuce alone

Date: 15 Jul 1994 08:56:01 -0400
From: newstf01.cr1.aol.com!search01.news.aol.com!not-for-mail@uunet.uu.net
Subject: >> Simplex repeaters <<
To: info-hams@ucsd.edu

Does anyone have any experiences good or bad with simplex repeaters? I've
got an Alinco SR-4 that I use but would like to find a novel use for it.
Any ideas?

73, Rob, N1NTE   (email - RobB873302@aol.com)

Date: Fri, 15 Jul 1994 11:01:28 GMT
From: news.mtholyoke.edu!news.unomaha.edu!news@uunet.uu.net
Subject: Guide to the Personal Radio Newsgroups
To: info-hams@ucsd.edu

Posted-By: auto-faq 3.2.1.2
Archive-name: radio/personal-intro
Revision: 1.5 12/18/93 14:15:53
Changes: new mailing lists, .packet rmgroup, and .policy updates

(Note: The following is reprinted with the permission of the author.)

This message describes the rec.radio.amateur.*, rec.radio.cb, rec.radio.info,
and rec.radio.swap newsgroups. It is intended to serve as a guide for the new
reader on what to find where. Questions and comments may be directed to the
author, Jay Maynard, K5ZC, by Internet electronic mail at
jmaynard@oac.hsc.uth.tmc.edu. This message was last changed on 18 September

1993 to add the mailing lists for the new rec.radio.amateur newsgroups, to
note the rmgroup of rec.radio.amateur.packet, and to officially retire some
(in)famous threads of discussion on rec.radio.amateur.policy.

History
=======

Way back when, before there was a Usenet, the Internet hosted a mailing list
for hams, called (appropriately enough) INFO-HAMS. Ham radio discussions
were held on the mailing list, and sent to the mailboxes of those who had
signed up for it. When the Usenet software was created, and net news as we
now know it was developed, a newsgroup was created for hams: net.ham-radio.
The mailing list and the newsgroup were gatewayed together, eventually.

As the net grew, and as packet radio came into vogue, packet discussion began
to dominate other topics in the group and on the list. This resulted in the
logical solution: a group was created to hold the packet discussion, and
another corresponding mailing list was created as well: net.ham-radio.packet
and PACKET-RADIO, respectively.

These two groups served for several years, and went through Usenet's Great
Renaming essentially unchanged, moving from net.ham-radio[.packet] to
rec.ham-radio[.packet]. Readership and volume grew with the rest of the
network.

The INFO-HAMS mailing list was originally run from a US Army computer at
White Sands Missile Range, SIMTEL20. There were few problems with this
arrangement, but one was that the system was not supposed to be used for
commercial purposes. Since one of hams' favorite pastimes is swapping
gear, it was natural for hams to post messages about equipment for sale
to INFO-HAMS/rec.ham-radio. This ran afoul of SIMTEL20's no-commercial-use
restriction, and after some argument, a group was created specifically
for messages like that: rec.ham-radio.swap. This group wasn't gatewayed to
a mailing list, thus avoiding problems.

While all this was happening, other folks wanted to discuss other aspects
of the world of radio than the personal communications services. Those
folks created the rec.radio.shortwave and rec.radio.noncomm newsgroups,
and established the precedent of the rec.radio.* hierarchy, which in turn
reflected Usenet's overall trend toward a hierarchical name structure.

The debate between proponents of a no-code ham radio license and its opponents
grew fierce and voluminous in late 1989 and 1990. Eventually, both sides grew
weary of the debate, and those who had not been involved even more so. A
proposal for a newsgroup dedicated to licensing issues failed. A later
proposal was made for a group that would cover the many recurring legal issues
discussions. During discussion of the latter proposal, it became clear that it
would be desirable to fit the ham radio groups under the rec.radio.*

hierarchy. A full-blown reorganization was passed by Usenet voters in January 1991, leading to the overall structure we now use.

After the reorganization, more and more regular information postings began to appear, and were spread out across the various groups in rec.radio.*. Taking the successful example of the news.answers group, where informational postings from across the net are sent, the group rec.radio.info was created in December, 1992, with Mark Salyzyn, VE6MGS, initially serving as moderator.

In January, 1993, many users started complaining about the volume in rec.radio.amateur.misc. This led to a discussion about a second reorganization, which sparked the creation of a mailing list by Ian Kluft, KD6EUI. This list, which was eventually joined by many of the most prolific posters to the ham radio groups, came up with a proposal to add 11 groups to the rec.radio.amateur hierarchy in April 1993. The subsequent vote, held in May and early June, approved the creation of five groups: rec.radio.amateur.digital.misc (to replace .packet), .equipment, .homebrew, .antenna, and .space.

The Current Groups
==================

I can hear you asking, "OK, so this is all neat history, but what does it have to do with me now?" The answer is that the history of each group has a direct bearing on what the group is used for, and what's considered appropriate where.

The easy one is rec.radio.amateur.misc. It is what rec.ham-radio was renamed to during the reorganization. Any message that's not more appropriate in one of the other groups belongs here, from contesting to DX to ragchewing on VHF to information on becoming a ham.

The group rec.radio.amateur.digital.misc is for discussions related to (surprise!) digital amateur radio. This doesn't have to be the common two-meter AX.25 variety of packet radio, either; some of the most knowledgeable folks in radio digital communications can be found here, and anything in the general area is welcome. The name was changed to emphasize this, and to encourage discussion not only of other text-based digital modes, such as AMTOR, RTTY, and Clover, but things like digital voice and video as well. The former group, rec.radio.amateur.packet, should be removed by September 21st, 1993. It is obsolete, and you should use .digital.misc instead (or the appropriate new mailing list, mentioned below). The group has .misc as part of the name to allow further specialization if the users wish it, such as .digital.tcp-ip.

The swap group is now rec.radio.swap. This recognizes a fact that became evident shortly after the original group was formed: Hams don't just swap ham radio gear, and other folks besides hams swap ham equipment. If you have radio

equipment, or test gear, or computer stuff that hams would be interested in,
here's the place. Equipment wanted postings belong here too. Discussions about
the equipment generally don't; if you wish to discuss a particular posting
with the buyer, email is a much better way to do it, and the other groups,
especially .equipment and .homebrew, are the place for public discussions.
There is now a regular posting with information on how to go about buying and
selling items in rec.radio.swap; please refer to it before you post there.

The first reorganization added two groups to the list, one of which is
rec.radio.amateur.policy. This group was created as a place for all the
discussions that seem to drag on interminably about the many rules,
regulations, legalities, and policies that surround amateur radio, both
existing and proposed. Recent changes to the Amateur Radio Rules (FCC
Part 97) have finally laid to rest the Great Usenet Pizza Autopatch Debate
as well as complaints about now-preempted local scanner laws hostile to
amateurs, but plenty of discussion about what a bunch of rotten no-goodniks
the local frequency coordinating body is, as well as the neverending no-code
debate, may still be found here.

The other added group is rec.radio.cb. This is the place for all discussion
about the Citizens' Band radio service. Such discussions have been very
inflammatory in rec.ham-radio in the past; please do not cross-post to both
rec.radio.cb and rec.radio.amateur.* unless the topic is genuinely of interest
to both hams and CBers - and very few topics are.

The rec.radio.info group is just what its name implies: it's the place where
informational messages from across rec.radio.* may be found, regardless of
where else they're posted. As of this writing, information posted to the group
includes Cary Oler's daily solar progagation bulletins, ARRL bulletins, the
Frequently Asked Questions files for the various groups, and radio
modification instructions. This group is moderated, so you cannot post to it
directly; if you try, even if your message is crossposted to one of the other
groups, your message will be mailed to the moderator, who is currently Mark
Salyzyn, VE6MGS. The email address for submissions to the group is
rec-radio-info@ve6mgs.ampr.ab.ca. Inquires and other administrivia should be
directed to rec-radio-request@ve6mgs.ampr.ab.ca. For more information about
rec.radio.info, consult the introduction and posting guidelines that are
regularly posted to that newsgroup.

The groups rec.radio.amateur.antenna, .equipment, .homebrew, and .space are
for more specialized areas of ham radio: discussions about antennas,
commercially-made equipment, homebrewing, and amateur radio space operations.
The .equipment group is not the place for buying or selling equipment; that's
what rec.radio.swap is for. Similarly, the .space group is specifically about
amateur radio in space, such as the OSCAR program and SAREX, the Shuttle
Amateur Radio EXperiment; other groups cover other aspects of satellites and
space. Homebrewing isn't about making your own alcoholic beverages at home
(that's rec.crafts.brewing), but rather construction of radio and electronic

equipment by the amateur experimenter.

Except for rec.radio.swap and rec.radio.cb, all of these newsgroups are
available by Internet electronic mail in digest format; send a mail message
containing "help" on a line by itself to listserv@ucsd.edu for instructions
on how to use the mail server.

All of the groups can be posted to by electronic mail, though, by using a
gateway at the University of Texas at Austin. To post a message this way,
change the name of the group you wish to post to by replacing all of the '.'s
with '-'s - for example, rec.radio.swap becomes rec-radio-swap - and send to
that name@cs.utexas.edu (rec-radio-swap@cs.utexas.edu, for example). You may
crosspost by including multiple addresses as Cc: entries (but see below). This
gateway's continued availability is at the pleasure of the admins at
UT-Austin, and is subject to going away at any time - and especially if
forgeries and other net.abuses become a problem. You have been warned.

A Few Words on Crossposting
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Please do not crosspost messages to two or more groups unless there is genuine
interest in both groups in the topic being discussed, and when you do, please
include a header line of the form "Followup-To: group.name" in your article's
headers (before the first blank line). This will cause followups to your
article to go to the group listed in the Followup-To: line. If you wish
to have replies to go to you by email, rather than be posted, use the word
"poster" instead of the name of a group. Such a line appears in the headers
of this article.

One of the few examples of productive cross-posting is with the rec.radio.info
newsgroup. To provide a filtered presentation of information articles, while
still maintaining visibility in their home newsgroups, the moderator strongly
encourages cross-posting. All information articles should be submitted to the
rec.radio.info moderator so that he may simultaneously cross-post your
information to the appropriate newsgroups. Most newsreaders will only present
the article once, and network bandwidth is conserved since only one article is
propagated. If you make regular informational postings, and have made
arrangements with the moderator to post directly to the group, please
cross-post as appropriate.

--
Jay Maynard, EMT-P, K5ZC, PP-ASEL | Never ascribe to malice that which can
jmaynard@oac.hsc.uth.tmc.edu | adequately be explained by stupidity.
     "If my car ran OS/2, it'd be there by now" -- bumper sticker
               GCS d++ p+ c++ l+ m+/- s/++ g++ w++ t+ r

--
73, Paul W. Schleck, KD3FU

pschleck@unomaha.edu

The following is a list of informational files for this newsgroup
available via anonymous FTP from ftp.cs.buffalo.edu or the Australia/
Asian-Pacific mirror at grivel.une.edu.au.

Questions to bowen@cs.buffalo.edu

```
1750m.band          - misc info on the 1750m band
222xvtr.zip         - PostScript code for KH6CP no-tune 222-MHz transverter
8085sys.zip         - 8085 system software, from QEX 11/93 and 12/93
alinco_180t_mod        - Alinco 180T modification for a TNC connection
ampr_coordinators  - coordinators for packet IP addresses
antenna_refs        - references for articles about antenna designs
antique_radio_info - misc info about antique radio collecting
arrl-logo.ps        - ARRL logo in PostScript format
arrl_bib        - bibliographies from ARRL literature (ASCII format)
arrl_digital_minutes    - Minutes of the ARRL committee on digital comm.
arrl_fo_jobs        - descriptions of some ARRL Field Organization jobs
arrl_info_service  - announcement of the ARRLs trial information service
bbs_interface_specs     - specifications for message passing protocol
cal_pd_freq         - California police frequencies
callbook.tar.Z          - sources for the Buffalo callsign server v1.3
canadian.Z          - Canadian ham database in FCC format
carpet.loop.2       - Antenna for apartments and small spaces
clubcalls.Z         - database of US ham clubs
comb6.zip       - HF Propagation Predication program
docket_91-36        - information regarding the proposed scanner regs
dxcc-k2di       - ARRL DXCC country list
dx_w2iol.dat        - data for all country prefix, position, etc
dx_w2iol.doc        - documentation for the above database
element_credit          - rules about VE credit for earliers exams
elmers_admin        - information about the elmers list (see below)
elmers_index        - quick reference index of elmers
elmers_list         - list of elmers on the network
exam_ops        - info on exams and exam opportunities
faq_callsign        - frequently asked questions about the callsign server
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faq_ham_1       - frequently asked questions about ham radio (pts 1)
faq_ham_2       - frequently asked questions about ham radio (pts 2)
faq_ham_3       - frequently asked questions about ham radio (pts 3)
faq_packet         - frequently asked questions about packet radio
faq_satellite      - frequently asked questions about satellites
faq_shortwave      - frequently asked questions about shortwave
fcc_part_97_1      - text of the FCC part 97 amateur regulations (part 1)
fcc_part_97_2      - text of the FCC part 97 amateur regulations (part 2)
fcc_part_97_3      - text of the FCC part 97 amateur regulations (part 3)
fft.com            - EGA/VGA DOS command for spectral display (QST 1/92)
ffth.com        - Hercules DOS command for spectral display (QST 1/92)
field_day_92       - field day rules for 1992
florida_antenna        - Florida State antenna law info
guide2newsgroups   - description of USENET newsgroups dedicated to radio
ham_sat_sum        - summary of information needed to get on satellite
hams_on_usenet         - list of ham operators and e-mail addresses on the net
hamstacks       - information about the question pool stacks
handicap_waiver        - info on obtaining a handicapped test waiver
hf_rigs            - QST reviews of available HF rigs
ht_info            - general information about commercial hand helds
icom_ic_w21at_mods - increases the number of bands on an Icom IC W21AT
intro_to_swl       - info for aspiring short wave listeners
intro_to_scanners  - info for aspiring scanner listeners
jlem.zip        - Program, w/source, for 2kx8 ROM emulator (QEX 1/93)
j-poles            - description of j-pole antenna made from twin-lead
keplerian_format   - specification for format of keplerian elements
lead_acid_batteries    - essay on lead-acid batteries
license_plates         - guide to ham calls on license plates
logos              - PostScript logos for various ham organizations
mail_order         - a database of electronic mail order shops
manufacturers      - names and addresses of ham gear manufacturers
mav11.ps        - postscript image of MAV-11 amplifier PCB (QEX 9/93)
mlhacker.zip       - newsletters about the MiniSport Laptop Hacker
mods            - directory containing radio modifications
motorola_ge_service_man - how to get service manuals for Motorola and GE rigs
nasa_select        - places where you can hear NASA SELECT broadcasts
new_packeteers         - helpful essays for new packeteers
newcomers       - tips and hints for those new to amateur radio
nprm_93-85_text        - text of docket 93-85 (message forwarding systems)
nprm_93-305_text   - text of docket 93-305 (vanity call system)
oe_m1_review       - review of the Optoelectronic M1 Handicounter
oe_3000a_review        - review of the Optoelectronic 3000A Handicounter
packet_clubs       - organizations you can get more packet info from
packet_gateways        - list of gateways from packet to Internet
packet_header_standard - description of BBS message header standards
packet_misc        - miscellaneous packet info
packet_software        - list of packet software versions
phone_bbs_list         - phone BBSs for ham related issues/software
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pio_handbook       - ARRL Public Information Officer's Handbook
postscript_610         - postscript code to print an FCC form 610
pr_docket_92-136   - text of FCC PR Docket 92-136
pshift.zip         - Phase-shift network analysis program, April, 1994 QEX
qex1193.ps         - Postscript image of 13cm preamp board, 11/93 QEX "RF"
qexcvsd.zip        - CVSD codec card test programs, April 1994 QEX
qexfq194.zip       - Pascal program for PC frequency counter, Jan 1994 QEX
qexpad.zip         - VHF Power Attenuator program, April 1994 QEX
qsl_bureau1        - information about the ARRL QSL bureau
qsl_bureau2        - "what should I do if" list for the QSL bureau
qst_prodrev        - index of ARRL product reviews in QST
quest_pool_novice  - novice question pool - good after 7/1/93
quest_pool_technician   - technician question pool - good after 7/1/93
quest_pool_general - general question pool - good before 6/30/94
quest_pool_advanced     - advanced question pool - good before 6/30/95
quest_pool_extra   - extra question pool - good before 6/30/96
rfi_tips       - good posting about RFI
sol_geo_data       - desciption of daily solar geophysical broadcasts
sol_terra_terms        - glossary of solar-terrestrial terms
sstv_wefax_info        - general help for SSTV and WEFAX users
tasm.zip       - table-driven assembler for weavrdsp.zip file
txt2eprm.zip       - morse code ID generator programming utility (QEX 2/94)
usenet_purchases   - tips on buying and selling via USENET
vlf_elf_references - references for info on VLF and ELF radio
weavrdsp.zip       - src to "Weaver Method Modulator Using DSP" (QEX 9/93)
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For readers of this newsgroup both new and experienced, these files are
a de-facto "Required Reading List" to provide definitive answers and
pointers to other sources for questions that come up in this forum.

This is also your archive, so any additional articles, guides, or small
PostScript graphics that you feel would enhance this collection are most
welcome. Submit to Devon via his E-mail address above.

Thanks go to Devon Bowen, KA2NRC, for providing diskspace and maintaining
these valuable archives, as well as all the authors who wrote and submitted
the information contained in them.

Additional archives out there that have /pub/ham-radio directories are
encouraged to "mirror" these files to provide redundant storage for these
documents. Some of these sites (which may or may not mirror
ftp.cs.buffalo.edu) include:

```
ftp.ucsd.edu               /hamradio
nic.funet.fi               /pub/ham
                           /pub/dx
csseq.cs.tamu.edu          /ham-radio
suntan.tandem.com          /hamradio
```

```
col.hp.com                          /packet
ftp.cs.buffalo.edu                  /pub/ham-radio
bubba.business.uwo.ca               /hamster/ham
                                    /hamster/tcpip
                                    /hamster/mods
                                    /hamster/view
vax.cs.pitt.edu                     /pub/arrl8
                                    /pub/ka9q
                                    /pub/ncpa
                                    /pub/tnc2
brolga.cc.uq.oz.au                  /pub/ka9q
tomcat.gsfc.nasa.gov                /public
helios.tn.cornell.edu               /pub
wuarchive.wustl.edu                 /mirrors/msdos/hamradio
                                    /mirrors/msdos/packet
                                    /mirrors/msdos/ka9q-tcpip
                                    /mirrors/cpm/hamradio
                                    /mirrors/cpm/packet
                                    /mirrors/misc/hamradio
                                    /mirrors/misc/packet
                                    /mirrors/misc/ka9q-tcpip
gatekeeper.dec.com                  /pub/net/ka9q
sun.soe.clarkson.edu                /pub/ka9q
sics.se                             /archive/packet
                                    /pub/packet-incoming
sabrina.dei.unipd.it                /pub/hamradio
uhunix2.uhcc.Hawaii.Edu             /incoming/ham-radio
caticsuf.cati.csufresno.edu         /pub/ham-radio
ftp.waseda.ac.jp                    /pub/toumon/ham-radio
garfield.catt.ncsu.edu              /pub/hamradio
plan9.njit.edu                      /pub/hamradio
sunee.uwaterloo.ca                  /pub/radio
grivel.une.edu.au                   /pub/ham-radio
vixen.cso.uiuc.edu                  /pub/ham-radio
iraun1.ira.uka.de                   /pub/ham-radio
nic.switch.ch                       /software/hamradio
                                    /software/mac/ham-radio
iesd.auc.dk                         /ham-radio
akutaktak.andrew.cmu.edu            /aw0g (softkiss-mac)
gandalf.umcs.maine.edu              /pub/ham-radio # ls -l NO !)
rtfm.mit.edu                        /pub/usenet/news.answers/radio
tamu.edu                            /pc-sig
ftp.geo.brown.edu                   /pub/hamradio
ns.risc.net                         /ham-radio
oak.oakland.edu                     /pub/hamradio
ftp.fidonet.org                     /pub/fidonet/ham
ftp.halcyon.com                     /pub/fidonet/ham
ftp.fcc.gov                         /pub
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ftp.demon.co.uk                    /pub/ham
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Questions about FTP mirroring and access to appropriate software should
be directed to me, or do an Archie search on the keyword "mirror."

For those without FTP access (and only those without FTP access,
please), there is an FTP mail server at ftpmail@decwrl.dec.com. Send
the word "HELP" to this address for more information.

Additional documents on Usenet and other newsgroups may be obtained
from rtfm.mit.edu via anonymous FTP or via mail server (send the word
"HELP" to mail-server@rtfm.mit.edu).

The American Radio Relay League has recently made available a
mail-server to distribute many of their informational documents in
electronic form. Send E-mail to info@arrl.org with "HELP" in the
message body for more information. These files are also mirrored
on oak.oakland.edu.

Yet another mail-server has been made available by Steve Harding,
KA6ETB. Send E-mail to ham-server@grafex.sbay.org with "HELP" in
the message body for more information.

--
73, Paul W. Schleck, KD3FU

pschleck@unomaha.edu

Date: 15 Jul 94 15:29:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: orbs$196.2l.amsat
To: info-hams@ucsd.edu

SB KEPS @ AMSAT $ORBS-196.N
2Line Orbital Elements 196.AMSAT

HR AMSAT ORBITAL ELEMENTS FOR AMATEUR SATELLITES IN NASA FORMAT
FROM WA5QGD FORT WORTH,TX July 15, 1994
BID: $ORBS-196.N

DECODE 2-LINE ELSETS WITH THE FOLLOWING KEY:
1 AAAAAU 00 0 0 BBBBB.BBBBBBBB .CCCCCCCC 00000-0 00000-0 0 DDDZ
2 AAAAA EEE.EEEE FFF.FFFF GGGGGGG HHH.HHHH III.IIII JJ.JJJJJJJJKKKKKZ
KEY: A-CATALOGNUM B-EPOCHTIME C-DECAY D-ELSETNUM E-INCLINATION F-RAAN
G-ECCENTRICITY H-ARGPERIGEE I-MNANOM J-MNMOTION K-ORBITNUM Z-CHECKSUM

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TO ALL RADIO AMATEURS BT


AO-10
1 14129U 83058B   94176.41110075 -.00000306  00000-0  10000-3 0  2893
2 14129  27.0856 321.0039 6024383 189.2195 150.8337  2.05882336 82954
UO-11
1 14781U 84021B   94195.06242397  .00000083  00000-0  21899-4 0  7078
2 14781  97.7856 208.5283 0011425 178.8317 181.2912 14.69229240554255
RS-10/11
1 18129U 87054A   94191.83829016  .00000023  00000-0  90572-5 0  9258
2 18129  82.9253 311.3579 0011286 326.8723  33.1722 13.72339043353150
AO-13
1 19216U 88051B   94194.95255508  .00000298  00000-0  10000-4 0  9294
2 19216  57.7505 242.1137 7218612 345.7422   1.7891  2.09718797 46572
FO-20
1 20480U 90013C   94189.41964946 -.00000031  00000-0  10578-4 0  7045
2 20480  99.0382 337.2291 0540391 291.4400  62.9899 12.83226051206850
AO-21
1 21087U 91006A   94194.16588839  .00000094  00000-0  82657-4 0  4887
2 21087  82.9469 123.4935 0036545  13.7087 346.5049 13.74542040173152
RS-12/13
1 21089U 91007A   94194.88952093  .00000027  00000-0  12522-4 0  7070
2 21089  82.9198 351.6397 0030785  35.6257 324.6938 13.74043526172318
ARSENE
1 22654U 93031B   94188.21304092 -.00000116  00000-0  00000 0 0  2649
2 22654   1.8958  98.1428 2918247 185.7752 169.5951  1.42202950  1486
UO-14
1 20437U 90005B   94194.18674123  .00000006  00000-0  19106-4 0    98
2 20437  98.5896 278.6106 0011733 112.1063 248.1368 14.29849139233305
AO-16
1 20439U 90005D   94191.23243034  .00000002  00000-0  17803-4 0  8070
2 20439  98.5970 276.9521 0011864 120.8244 239.4105 14.29902905232890
DO-17
1 20440U 90005E   94191.18451979  .00000008  00000-0  19944-4 0  8079
2 20440  98.5982 277.2360 0011890 119.6518 240.5849 14.30042562232905
WO-18
1 20441U 90005F   94193.67915633  .00000013  00000-0  21986-4 0  8107
2 20441  98.5990 279.7005 0012641 113.6115 246.6399 14.30016962233262
LO-19
1 20442U 90005G   94192.18636356  .00000011  00000-0  20960-4 0  8069
2 20442  98.5997 278.4886 0012869 117.3153 242.9341 14.30113219233065
UO-22
1 21575U 91050B   94194.66619103  .00000045  00000-0  29726-4 0  5113
2 21575  98.4338 268.6283 0007042 206.6952 153.3878 14.36923444156888
KO-23
1 22077U 92052B   94194.13082891 -.00000037  00000-0  10000-3 0  4063
2 22077  66.0832 225.6621 0015044 281.6382  78.2949 12.86286951 90122
AO-27
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1 22825U 93061C   94193.74755536  .00000004  00000-0  19606-4 0  3046
2 22825  98.6530 269.3004 0009155 129.4928 230.7062 14.27628830 41333
IO-26
1 22826U 93061D   94192.74556263  .00000003  00000-0  18991-4 0  3047
2 22826  98.6522 268.3468 0009568 134.0785 226.1185 14.27733130 41198
KO-25
1 22830U 93061H   94193.17093563 -.00000010  00000-0  13333-4 0  3098
2 22830  98.5531 265.7524 0012396 101.6312 258.6268 14.28059498 41264
NOAA-9
1 15427U 84123A   94194.99686475  .00000084  00000-0  68552-4 0  8742
2 15427  99.0473 245.7977 0015281 141.2505 218.9765 14.13628436494046
NOAA-10
1 16969U 86073A   94194.98167710  .00000081  00000-0  53006-4 0  7716
2 16969  98.5052 203.1638 0012179 251.8027 108.1826 14.24897266406319
MET-2/17
1 18820U 88005A   94194.54056114  .00000052  00000-0  32691-4 0  3359
2 18820  82.5412 247.6202 0018062 103.4929 256.8248 13.84718542326000
MET-3/2
1 19336U 88064A   94194.22136815  .00000051  00000-0  10000-3 0  3021
2 19336  82.5413 305.2575 0016030 195.4260 164.6376 13.16967780286682
NOAA-11
1 19531U 88089A   94194.97891555  .00000075  00000-0  65024-4 0  6921
2 19531  99.1747 184.5475 0012899  57.3264 302.9149 14.13002039298929
MET-2/18
1 19851U 89018A   94191.85639551  .00000047  00000-0  29128-4 0  3021
2 19851  82.5208 125.0543 0013991 153.7603 206.4260 13.84367799270960
MET-3/3
1 20305U 89086A   94194.92403808  .00000044  00000-0  10000-3 0   894
2 20305  82.5560 251.5016 0007665 212.6308 147.4475 13.04409832226381
MET-2/19
1 20670U 90057A   94193.02564718  .00000030  00000-0  13553-4 0  8077
2 20670  82.5382 188.7333 0017853  77.2924 283.0207 13.84189830204051
FY-1/2
1 20788U 90081A   94194.03417053 -.00000082  00000-0 -26181-4 0   134
2 20788  98.8356 213.3492 0015573 302.7604  57.2060 14.01356654197320
MET-2/20
1 20826U 90086A   94192.24637361  .00000056  00000-0  37102-4 0  8153
2 20826  82.5260 126.8437 0013852 348.2605  11.8236 13.83584780191088
MET-3/4
1 21232U 91030A   94192.41447599  .00000051  00000-0  10000-3 0  7146
2 21232  82.5397 152.4638 0013853 120.2656 239.9835 13.16463320154544
NOAA-12
1 21263U 91032A   94194.99451251  .00000161  00000-0  91625-4 0   965
2 21263  98.6161 222.1803 0013093 154.5532 205.6291 14.22428011164311
MET-3/5
1 21655U 91056A   94194.19428742  .00000051  00000-0  10000-3 0  7239
2 21655  82.5532  98.3833 0013766 126.6238 233.6140 13.16831903139884
MET-2/21
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1 22782U 93055A   94194.41246650  .00000037  00000-0  19902-4 0  3155
2 22782  82.5469 185.6515 0023001 148.4453 211.8095 13.83010359 43717
POSAT
1 22829U 93061G   94193.24660920  .00000013  00000-0  22747-4 0  2978
2 22829  98.6491 268.8716 0010740 120.3722 239.8519 14.28032813 41272
MIR
1 16609U 86017A   94194.90801470  .00006924  00000-0  10228-3 0  6792
2 16609  51.6459  52.7244 0003477 143.6748 216.4466 15.56583481480188
HUBBLE
1 20580U 90037B   94192.85852801  .00000426  00000-0  27230-4 0  5059
2 20580  28.4692  77.4963 0006071 346.8534  13.1893 14.90638114 33076
GRO
1 21225U 91027B   94190.87753482  .00002166  00000-0  44839-4 0  1144
2 21225  28.4619  74.6101 0003465 117.4235 242.6711 15.41023364 60440
UARS
1 21701U 91063B   94192.89558286  .00003368  00000-0  31530-3 0  5548
2 21701  56.9857  60.0520 0005570 103.1912 256.9743 14.96455115154636
/EX
```

Date: 15 Jul 1994 10:09:32 -0000
From: ihnp4.ucsd.edu!agate!library.ucla.edu!psgrain!nntp.cs.ubc.ca!torn!uunet.ca!
uunet.ca!ionews.io.org!nobody@network.ucsd.edu
Subject: Performance of Toshiba TA7758P chip
To: info-hams@ucsd.edu

Is anyone familiar with the Toshiba TA7758p chip?

It's inside an inexpensive sw radio I have (a Pulser).

Is it a 'receiver on a chip'? .. an IF module?

Mike
--
==
Mike Stramba   Email: mike@io.org
Toronto,Canada   Internex Online - Toronto, Canada (416) 363-3783
==

Date: Thu, 14 Jul 1994 23:17:38 GMT
From: ihnp4.ucsd.edu!usc!cs.utexas.edu!wotan.compaq.com!twisto.eng.hou.compaq.com!
news@network.ucsd.edu
Subject: Re: Please read: Ham Radio Bootcamp (Long)
To: info-hams@ucsd.edu

>In article <300om6$bvi@search01.news.aol.com> robb873302@aol.com (RobB873302)
writes:
>>HAM RADIO BOOTCAMP
>>.....
>>and even Morse code practice could be covered in such a net. VE's could
>
>Interesting idea. I don't have a copy of the CFR regs for 11M - is
>A2 emission (modulated CW) allowed on there? I'd be happy to give
>code practice sessions on CB if it's legal. But would that be considered
>a broadcast (which I know is prohibited on 11M)?
>
>Jeff NH6IL

Probably is. Code practice is spelled out as a specific exception to the
broadcast rule
in the Amateur regs. I'm sure there is nothing about code practice on the CB
band.

Otherwise, sounds like a great idea. I'm going to start practicing to be a Ham
Radio
Boot Camp D.I.

"Don't jerk those paddles boy, squeeze them."

"Don't call me sir!, I work CW for a living"

"You call that a CW fist, maggot? "

"All right ladies, drop your c**ks and grab your socks. It's 4AM and 160 meters
is grayline
 to somewhere in the Pacific"

Sorry, I couldn't resist. {:-)

MSGT Earl Morse
160th Low Bander's Brigade

KZ8E
kz8e@bangate.compaq.com

Date: Fri, 15 Jul 1994 05:41:41 GMT
From: ihnp4.ucsd.edu!agate!library.ucla.edu!csulb.edu!csus.edu!netcom.com!
jevans@network.ucsd.edu
Subject: Selectone Encrypt
To: info-hams@ucsd.edu

--
==
    Jeff Evans   jevans@netcom.com
Audio Intervisual Design   phone 213-845-1155
   Los Angeles, CA   fax   -1170
==

: > The NTS is an obsolete system for transferring small bits of information
: > in an inefficient way. It is primarily of interest to old-time hams.
...

Let me add a few of thoughts to this thread...

1. NTS has embraced packet radio (though some old-timers were opposed to
    this idea at first). Why do so many packet users shun NTS?

2. NTS is extremely valuable to amateur radio. I'd recommend that ANYONE
    handling third-party traffic at least spend some time learning NTS.
    NTS teaches discipline, accuracy, and speed. Sure, messages get lost
    sometimes, but that's only because this is a hobby, and some people
    don't let it take too high of a priority in their personal/family life.
    Errors in messages, lost messages, etc. cannot be attributed only to NTS.
    Why can't some of the NTS methods and techniques be additionally
    adapted for situations when only Packet radio will be relaying the
    message (i.e., to handle messages > 25 words)? Perhaps a new "HX_"
    preamble code that means "This message not suitable for being relayed
    by voice or CW -- keep it in the digital TTY network; cancel and notify
    originator if not possible." ??? And of course we hams could put our
    heads together and find a solution to the problem of people forgetting
    to delete messages they pick up on Packet and deliver.

3. You hams in the U.S. should appreciate what you've got: in Europe
    and most other parts of the world, third-party traffic is illegal.
    THERE IS NO NTS HERE! Take it from an American who loved traffic
    handling in the U.S.: a BIG chunk of the fun is taken out of amateur
    radio when you can't pass messages for/to others (non-hams). And be
    aware that the European governments have attempted to persuade the U.S.
    government to outlaw third-party traffic in the U.S. as well. Check

out the ARRL FCC Rulebook for some history on this.

4. I used HF AMTOR/PacTor, and the VHF/UHF Packet network, to communicate
    with my dad (N7APE) and brother (AJ7X) on a daily basis for nearly 15
    years. Though we are still interested in amateur radio, we now use
    Internet Email to communicate, especially when HF propagation is not
    so good between Europe and the West Coast, but also due to the third-
    party traffic restrictions we now have imposed on us as a result of my
    relocation to Germany.

I'd be happy if, at some future date, NTS was replaced by an ITS
(*International* Traffic System) that embraced all modes (and users of all
modes embraced ITS). I suppose I'm dreaming though...

--Shannon, DL6SEU (AKA N7APC)
   Germany

End of Info-Hams Digest V94 #798
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